

Year-End Performance Report March 2005

A Summary of Maintenance Facility Storm Water Compliance Reviews

(July 2003 though June 2004)



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**Caltrans Environmental Program
Division of Environmental Analysis
Sacramento, California**

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ATTACHMENTS

ATTACHMENT A	Maintenance Facility Compliance Review Rating Guidelines and Procedures
ATTACHMENT B	Caltrans Maintenance Facility Storm Water Compliance Review Checklist

1.0 INTRODUCTION

The *Year-End Performance Report – September 2004* summarizes the storm water compliance reviews conducted at the California Department of Transportation (Department) maintenance facilities performed under Contract No. 43A0135 and 43A0136 from July 2003 through June 2004. The storm water reviews (inspections) were conducted to verify compliance with the requirements of the Department's currently approved *Statewide Storm Water Management Plan (SWMP)*, which was developed in accordance with the water pollution control requirements of the *National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water Discharges from the State of California, Department of Transportation (Caltrans) Properties, Facilities, and Activities (Order No. 99-06-DWQ)*, Permit No. CAS000003 (*Caltrans Permit*).

The key elements of this Year-End Performance Report include:

- Description of the storm water maintenance facility compliance program (Section 2.0).
- Summary of maintenance facility compliance inspections and storm water management Best Management Practice (BMP) effectiveness (Section 3.0).
- Trends, improvements, and challenges (Section 4.0).

2.0 MAINTENANCE FACILITY COMPLIANCE PROGRAM

The Maintenance Facility Compliance Program is an effort of the Department's Environmental Program to inspect all maintenance facilities statewide for storm water compliance within a 4-year period. Inspections were conducted by the Maintenance Facility Compliance Review Team consisting of District Maintenance Storm Water Coordinators, Headquarters Division of Maintenance staff, and third party (consultant) inspectors. The inspections were conducted in accordance with the Department's approved *Annual Maintenance Facility Compliance Review Plan (AMFCRP)*, and in consultation and coordination with Environmental Program and Maintenance Division staff. The Storm Water Maintenance Facility Compliance Program included the following components:

- Continuation of a storm water inspection program based on the BMPs identified in the SWMP, including facility selection criteria, review frequency, facility review checklist and a rating system.
- Continuation of reporting inspection results, communication with District Maintenance, Headquarters management, and on-site training.

This report summarizes the Team's activities and results for the second year of the program (July 2003 through June 2004).

2.1 INSPECTIONS

The Team inspected 25 percent of the facilities in each District, for a total of 102 inspections (82 initial and 20 revisits). Reviews were conducted on the following operations conducted at the facilities:

- Building and Grounds Maintenance
- Storage of Hazardous Materials (Working Stock)
- Material Storage Control (Hazardous Waste)
- Outdoor Storage of Raw Materials
- Vehicle and Equipment Fueling
- Vehicle and Equipment Cleaning
- Vehicle and Equipment Maintenance and Repair
- Aboveground and Underground Tank Leak and Spill Control

The Database Summary presented in Table 1 summarizes the complete inspection history of each maintenance facility reviewed during the reporting period.

2.1.1 Facility Selection Criteria

The selection of facilities for inspection was based on geographical location (to target 25 percent of the facilities in each District), proximity to environmentally sensitive areas (ESAs), specific types of activities conducted at the facility, and facility size. The Database Summary identifies the maintenance facilities that were inspected during the reporting period.

2.1.2 Review Criteria and Checklist

To maintain compliance with the *Caltrans SWMP*, Caltrans developed and implemented the *Maintenance Facility Compliance Guidelines and Procedures* (Attachment A) and a standardized *Maintenance Site Storm Water Compliance Review Checklist* (Attachment B) at all facility inspections. These guidelines, procedures, and checklist were developed in consultation with Headquarters Environmental Storm Water Program and Headquarters Maintenance Division staff to evaluate the overall effectiveness of storm water pollution prevention practices, implementation of those practices, and the potential for pollutant discharge at a facility.

During the inspection of a facility, the inspector rates the compliance status of the facility and documents the results using the Review Checklist. Following each review, a copy of the completed review checklist was submitted and reviewed with the maintenance facility supervisor, DMSWC, and/or designated representative.

2.1.3 Rating System

During a compliance inspection, the inspector evaluates the facility for each of the BMP categories on the Review Checklist and assigns a rating that represents an overall assessment of the facility's compliance with storm water pollution prevention requirements. The rating consists of a numeric component (1 through 4) and a letter component (A, B, C) as defined in the *Maintenance Facility Compliance Review Rating Guidelines and Procedures* presented in Attachment A, and as summarized below.

Numeric Rating Summary	
1	The facility is in compliance with Storm Water Management Plan (SWMP) requirements
2	Minor deficiencies noted. The facility is in compliance with SWMP requirements
3	Major deficiency noted that require prompt correction.
4	Critical deficiency noted that require immediate correction
Letter Rating Summary	
A	Overall implementation of BMPs is highly effective.
B	Overall implementation of BMPs is moderately effective.
C	Major and critical deficiencies in the overall implementation of BMPs.

Facilities that received a numeric rating of 1 or 2 are considered to be in compliance with the SWMP. A letter rating of A or B indicates that the facility's water pollution control effort is effective. In contrast, a numeric rating of 3 or 4 indicates the need for corrective actions, and a letter rating of C indicates that the facility's water pollution control effort is ineffective. If a facility received a 3 or 4 rating, corrective actions were recommended and the facility was re-inspected to determine if the recommended corrective actions were implemented and compliance with the SWMP.

Table 1. Database Summary (July 2003 - June 2004)

District	Maintenance Facility	Inspection Date	Reinspection	Overall Site	BMP Rating							
					Building & Grounds Maintenance	Storage of Hazardous Materials	Material Storage Control	Outdoor Storage of Raw Material	Vehicle Equipment Fueling	Vehicle Equipment Cleaning	Vehicle Equipment Maintenance & Repair	Tank Leak & Spill Control
1	Boonville	5/20/2004	Next Cycle	2B	1B	1A	1A	2B	1B	2B	1A	1B
	Manchester	5/20/2004	4 weeks	3B	3B	1A	1B	2B	1A	2B	2B	1B
	Manchester (re-visit)	6/21/2004	Next Cycle	1A	3B	1A	1A	1A	1A	1B	1B	1A
	Willits	5/21/2004	4 weeks	3B	3B	2B	2B	3B	NA	1B	2B	NA
	Willits (re-visit)	6/21/2004	Next Cycle	2B	2B	1A	1A	2B	NA	1B	1A	NA
	Clearlake Oaks	5/21/2004	Next Cycle	2B	1B	1A	1A	1B	1A	2B	1A	1A
2	Gibson	5/17/2004	5 weeks	3B	3B	1A	1A	3B	1B	2B	1A	1A
	Gibson (re-visit)	6/22/2004	Next Cycle	1B	1B	1A	1A	1B	1B	2A	1A	1A
	Weaverville	5/18/2004	Next Cycle	1A	1A	1A	1A	1A	1B	1A	1A	1A
	Hayfork	5/18/2004	Next Cycle	1B	1B	1A	NA	1B	NA	1A	1B	NA
	Platina	5/18/2004	Next Cycle	2B	2B	1A	NA	2B	NA	2B	1A	NA
	Mineral	5/19/2004	4 weeks	3B	3B	NA	1A	2B	1B	1A	1A	1A
	Mineral (re-visit)	6/22/2004	Next Cycle	2A	2A	NA	1A	1B	1B	1A	1A	1A
	Pulga	5/19/2004	Next Cycle	2B	2B	1A	1A	2B	1A	2B	2B	1A
3	Elk Grove	5/10/2004	Next Cycle	1B	1B	1A	1A	1A	1A	1A	1A	1A
	Sunrise	5/10/2004	Next Cycle	2B	2B	2B	1A	1B	1A	1A	1A	1A
	Willows	5/11/2004	Next Cycle	1A	1A	1A	1A	1A	1A	1A	1A	1A
	Chico	5/11/2004	Next Cycle	1B	1B	1A	1A	1B	1A	1A	1A	1A
	Placerville	5/12/2004	6 weeks	3B	2B	NA	1A	2B	1A	3B	1A	1B
	Placerville (re-visit)	6/25/2004	Next Cycle	2B	1A	NA	1A	2B	1A	2B	1A	1B
	South Lake Tahoe	5/12/2004	Next Cycle	2B	2B	NA	1A	2B	1A	1A	1A	1A
	Whitmore	5/13/2004	Next Cycle	2B	2B	NA	2B	1B	2B	1A	1A	1A
4	Benicia Electrical	4/6/2004	Next Cycle	2B	2B	NA	1A	NA	NA	2B	NA	NA
	Tri-Bridge	4/6/2004	Next Cycle	2B	2B	1A	1A	1B	1A	1A	1A	1A
	Dixon	4/6/2004	4 weeks	3B	3B	NA	1B	3B	1B	2A	1B	1A
	Dixon (re-visit)	5/7/2004	Next Cycle	2B	2B	NA	1A	1B	1B	2A	1B	1A
	Rio Vista	4/7/2004	Next Cycle	2A	2A	1A	1A	1B	1A	1A	1A	1A
	Fairfield	4/7/2004	7 weeks	3B	3B	1A	1A	2B	1B	1A	1A	1A
	Fairfield (re-visit)	6/2/2004	Next Cycle	1B	1B	1A	1A	1B	1B	1A	1A	1A
	Napa	4/8/2004	Next Cycle	2B	2B	1A	2B	2B	1B	2B	2B	1A
	Calistoga	4/8/2004	Next Cycle	2B	2B	NA	1A	2B	1B	2B	1A	1A
	Petaluma	4/9/2004	4 weeks	3B	3B	1A	1A	2B	1A	3B	1A	1A
	Petaluma (re-visit)	5/7/2004	Next Cycle	2B	2B	1A	1A	2B	1A	2B	1A	1A
	Livermore	4/20/2004	Next Cycle	1B	1B	1A	1B	1A	1A	1A	1B	1A
	Castro Valley	4/20/2004	Next Cycle	1A	1A	1A	1A	1A	NA	NA	NA	NA
	Cupertino	4/21/2004	Next Cycle	1B	1B	1A	1A	1A	1B	1A	1A	1B
	Redwood City	4/21/2004	Next Cycle	2B	2B	1B	1A	NA	1B	2B	NA	1A

Table 1. Database Summary (July 2003 - June 2004) - continued

District	Maintenance Facility	Inspection Date	Reinspection	Overall Site	BMP Rating							
					Building & Grounds Maintenance	Storage of Hazardous Materials	Material Storage Control	Outdoor Storage of Raw Material	Vehicle Equipment Fueling	Vehicle Equipment Cleaning	Vehicle Equipment Maintenance & Repair	Tank Leak & Spill Control
4	South Oakland	4/22/2004	Next Cycle	2B	2B	1A	1A	1B	NA	2B	2B	NA
	San Leandro	4/22/2004	5 weeks	3B	3B	1A	2B	1A	3B	2B	2B	3B
	San Leandro (re-visit)	6/2/2004	Next Cycle	2A	2A	1A	1A	1A	1B	2B	1B	1B
	Woodside	4/23/2004	5 weeks	3B	3B	1A	1A	1A	1A	1B	NA	1A
	Woodside (re-visit)	6/1/2004	Next Cycle	1A	1A	1A	1A	1A	1A	1B	1B	1A
	Half Moon Bay	4/23/2004	5 weeks	3C	3C	NA	1A	2B	1A	1A	2B	1A
	Half Moon Bay (re-visit)	6/1/2004	3 weeks	3B	3B	NA	1A	1A	3B	3B	2B	1A
	Half Moon Bay (re-visit)	6/23/2004	Next Cycle	2A	2A	NA	1A	1A	1A	2A	1B	1A
5	Santa Maria	3/29/2004	Next Cycle	2B	2B	1A	1A	1A	2B	1B	1A	NA
	San Luis Obispo	3/29/2004	Next Cycle	1A	1B	1A	1A	1A	1B	1B	1A	NA
	King City	3/30/2004	Next Cycle	1B	1B	NA	1A	2A	1A	1A	1A	1A
	Salinas	3/30/2004	2 weeks	3B	3B	2B	3B	2B	1A	1B	1A	1A
	Salinas (re-visit)	4/18/2004	Next Cycle	2B	1B	2B	1A	1B	1A	1B	1A	1A
6	Coarsegold	4/13/2004	2 weeks	3B	3B	1A	1A	2B	1A	3B	1A	1A
	Coarsegold (re-visit)	4/29/2004	Next Cycle	2A	2A	1A	1A	2A	1A	1A	1A	1A
	Lemoore	4/13/2004	Next Cycle	1A	1A	1A	1A	1A	1A	1A	1A	1A
	Taft	4/14/2004	Next Cycle	2A	2B	1A	1A	1A	2A	2A	2A	1A
	Tulare	4/14/2004	Next Cycle	1A	1A	1A	1A	1A	N/A	N/A	N/A	N/A
	Bodfish	4/15/2004	Next Cycle	1A	1A	1A	1A	1A	1A	1A	1A	1A
	Visalia	4/15/2004	2 weeks	3C	3C	1A	1A	3C	N/A	2B	1A	1A
	Visalia (re-visit)	4/29/2004	Next Cycle	2A	2A	1A	1A	2A	N/A	2A	1A	1A
7	Bellflower	4/19/2004	Next Cycle	1A	2A	1A	1A	1A	1A	1A	1A	1A
	Artesia	4/20/2004	Next Cycle	2B	2B	1A	N/A	2A	N/A	N/A	N/A	N/A
	Middlebury	4/20/2004	Next Cycle	2A	2A	1A	N/A	1A	N/A	N/A	N/A	N/A
	Altadena	4/21/2004	Next Cycle	2B	2B	1A	1A	1A	2B	1A	1A	2B
	East Region	4/21/2004	Next Cycle	2B	2B	1A	1A	1A	1A	1A	1A	1A
	Burbank	4/22/2004	Next Cycle	2A	2A	1A	1A	2A	N/A	N/A	N/A	N/A
	Lebec	4/23/2004	Next Cycle	1A	1A	1A	1A	1A	1A	1A	1A	1A
	North Hollywood	4/23/2004	Next Cycle	2A	2A	1A	1A	1A	1A	1A	2A	1A
	Camarillo	4/27/2004	Next Cycle	2A	2A	2A	1A	2A	1A	1A	1A	1A
	Fillmore	4/27/2004	Next Cycle	2B	2B	1A	1A	2A	1A	1A	2A	1A
	East Los Angeles	4/28/2004	Next Cycle	2B	2B	1A	1A	2A	1A	2A	1A	2A
	Sawtelle	4/28/2004	2 weeks	3C	3C	1A	1A	3C	N/A	3C	N/A	N/A
	Sawtelle (re-visit)	5/12/2004	Next Cycle	1A	1A	1A	1A	1A	N/A	1A	N/A	N/A

Table 1. Database Summary (July 2003 - June 2004) - continued

District	Maintenance Facility	Inspection Date	Reinspection	Overall Site	BMP Rating							
					Building & Grounds Maintenance	Storage of Hazardous Materials	Material Storage Control	Outdoor Storage of Raw Material	Vehicle Equipment Fueling	Vehicle Equipment Cleaning	Vehicle Equipment Maintenance & Repair	Tank Leak & Spill Control
8	Mountain Pass	6/7/2004	Next Cycle	2B	2B	2A	1A	2A	1A	1A	2A	2A
	Magana Spec Crews	6/8/2004	3 weeks	3C	3C	1A	1A	3B	N/A	3B	2A	1A
	Magana Spec Crews(re-visit)	6/28/2004	Next Cycle	2B	2B	2A	1A	2A	1A	1A	1A	N/A
	Paradise Valley	6/8/2004	Next Cycle	2B	2A	1A	1A	1A	N/A	2B	2A	2B
	Keen Camp	6/9/2004	Next Cycle	2B	1A	2A	1A	2A	1A	1A	2A	2B
	Riverside	6/9/2004	Next Cycle	2B	2B	1A	1A	2A	1A	2B	2A	2A
	Beechers Camp	6/10/2004	Next Cycle	2A	2A	1A	1A	1A	1A	2A	2A	1A
	Essex	6/10/2004	Next Cycle	2A	1A	1A	1A	1A	1A	2A	2A	2A
9	Magana/Ortega	6/15/2004	Next Cycle	2B	2B	1A	1A	1A	N/A	2B	2A	1A
	Shoshone	5/10/2004	Next Cycle	2A	2A	1A	1A	1A	1A	1A	2A	1A
	Bishop	5/11/2004	Next Cycle	2A	2A	1A	1A	2A	N/A	1A	1A	N/A
	Inyokern	5/11/2004	Next Cycle	2B	2A	1A	1A	1A	1A	1A	2A	1A
	Tehachapi	5/11/2004	Next Cycle	2B	2B	1A	1A	2B	N/A	11A	1A	N/A
	Lee Vining	5/12/2004	Next Cycle	2A	1A	1A	1A	1A	2A	1A	1A	1A
	Mcgee Creek	5/12/2003	Next Cycle	2A	2A	1A	1A	2A	N/A	1A	1A	N/A
10	Patterson	6/15/2004	Next Cycle	2B	2B	1A	1A	2B	1A	2B	1A	2B
	Los Banos	6/15/2004	Next Cycle	2A	2A	1A	1A	1B	NA	1A	2B	NA
	Stockton	6/16/2004	Next Cycle	1B	1B	1A	1A	1A	1A	2A	1A	NA
	Long Barn	6/16/2004	Next Cycle	2B	2B	1A	1B	1B	1A	1A	1A	1A
	Pine Grove	6/17/2004	Next Cycle	2B	2B	1A	1A	1B	1A	2B	1A	1B
	Woodfords	6/17/2004	3 weeks	3B	2B	1A	1A	3B	1A	2B	1A	2B
	Woodfords (re-visit)	7/8/2004	Next Cycle	1B	1B	1A	1A	1A	1A	1B	1A	1B
11	Carlsbad	5/25/2004	Next Cycle	2A	1A	2A	1A	2A	1A	1A	1A	1A
	Chula Vista	5/25/2004	3 weeks	3B	2B	1A	1A	3B	1A	2A	2A	1A
	Chula Vista (re-visit)	6/17/2004	Next Cycle	2A	2A	1A	1A	1A	1A	2A	2A	1A
	Boulevard	5/26/2004	Next Cycle	2B	2A	1A	1A	2B	1A	N/A	1A	1A
	Descanso	5/26/2002	Next Cycle	2A	2A	1A	1A	1A	1A	1A	2A	1A
12	Costa Mesa	6/3/2004	2 weeks	3B	2B	1A	1A	2A	N/A	3B	1A	2A
	Costa Mesa (re-visit)	6/17/2004	Next Cycle	1A	1A	1A	1A	1A	1A	1A	1A	1A
	Stanton	6/3/2004	Next Cycle	2B	2B	1A	1A	2A	N/A	2B	1A	N/A
	San Juan Capistrano	6/4/2004	Next Cycle	2B	2B	1A	1A	2A	1A	2B	2A	1A

Notes:Revisit inspections are **bolded**.

NA - Not inspected or maintenance facility did not have

Next Cycle - 4 years

Facility Pollution Prevention Plans (FPPPs)

Each facility inspection included a review of the FPPP in order to evaluate the facility's compliance with maintaining monthly storm water forms in accordance with the *SWMP*. FPPP review results were noted on the Review Checklist.

2.2 REPORTING, COMMUNICATIONS, AND STATUS REPORTS

Throughout the reporting period, on-going communications were maintained with Headquarters management about program activities and results. In addition, status reports were submitted to Headquarters management and the DMSWCs to summarize inspection activity by District and to identify program issues such as difficulties in the field, variations with BMPs, and major or critical deficiencies.

Weekly and monthly status reports were submitted to Headquarters management and DMSWCs. Each status report provided a list of District maintenance facilities inspected, a summary of inspection results, and general deficiencies observed by inspectors in the field.

2.2.1 Database Summary

A database summary was maintained to make interim inspection results and other useful information readily available to Headquarters management, DMSWCs, and Team members. The database includes facility reference information, such as maintenance facility location and Team member contact information; overall facility ratings, and individual BMP ratings by category from completed Review Checklists.

2.2.2 On-Site Training

Informal on-the-job training occurred during inspections to provide immediate site-specific guidance to facility supervisors and maintenance staff to ensure that the inspection schedule allots sufficient time for the inspector to discuss observations with the facility supervisor, DMSWC or designated facility representatives.

3.0 COMPLIANCE RESULTS

This section summarizes the inspection results and BMP implementation results of the 102 storm water compliance inspections, including re-inspections that were conducted statewide from July 2003 through June 2004. A detailed list of results is provided in the Database Summary.

3.1 FACILITY INSPECTION RESULTS BY DISTRICT AND CATEGORY

During the reporting period 82 individual facilities were inspected. Table 2 summarizes numeric and letter ratings by District of these 82 facilities. Table 3 summarizes ratings by category. Numeric rating data in Table 2 shows the following:

- 63 facilities (77 percent) received a rating of 1 or 2.
- 19 facilities (23 percent) of remaining facilities inspected received a 3 rating. Eighteen of the nineteen facilities were in compliance after the first revisit and the remaining facility after the second revisit.
- None of the 82 facilities inspected during the reporting period received a rating of 4 or resulted in a discharge to a storm drain or waterway.

Letter rating data show the following:

- 24 facilities (29 percent) were rated A.
- 55 facilities were rated B.
- 3 facilities (4 percent) were rated C.

Table 2 Compliance Review Facility Ratings Summary – By District
July 2003 – June 2004

Numeric Ratings Summary									
District	No. of Facilities Reviewed								
		No Deficiencies		Minor Deficiencies		Major Deficiencies		Critical Deficiencies	
		1 Rating		2 Rating		3 Rating		4 Rating	
1	4			2	50%	2	50%		
2	6	2	33%	2	33%	2	33%		
3	7	3	43%	3	43%	1	14%		
4	16	3	19%	7	44%	6	37%		
5	4	2	50%	1	25%	1	25%		
6	6	3	50%	1	17%	2	33%		
7	12	2	17%	9	75%	1	8%		
8	8			7	88%	1	12%		
9	6			6	100%				
10	6	1	12%	4	66%	1	12%		
11	4			3	75%	1	25%		
12	3			2	67%	1	33%		
TOTAL	82	16	20%	47	57%	19	23%	0	0%

Letter Rating Summary							
District	No. of Facilities Reviewed	Highly Effective		Moderately Effective		Ineffective	
		A Rating		B Rating		C Rating	
1	4			4	100%		
2	6	1	17%	5	83%		
3	7	1	14%	6	86%		
4	16	2	13%	13	81%	1	6%
5	4	1	25%	3	75%		
6	6	4	67%	2	33%		
7	12	6	50%	5	42%	1	8%
8	8	2	25%	5	63%	1	12%
9	6	4	67%	2	33%		
10	6	1	17%	5	83%		
11	4	2	50%	2	50%		
12	3			3	100%		
TOTAL	82	24	29%	55	67%	3	4%

**Table 3 Compliance Review BMP Ratings Summary – By BMP Category
July 2003 – June 2004**

Numeric Rating Summary									
Best Management Practices Category	No. of Facilities w/BMP Activity	Compliant				Non-Compliant			
		Substantially Compliant		Minor Deficiencies		Major Deficiencies		Critical Deficiencies	
		1 Rating		2 Rating		3 Rating		4 Rating	
Building and Grounds Maintenance	82	21	26%	46	56%	15	18%		
Storage of Hazardous Materials (Working Stock)	73	66	90%	7	10%				
Material Storage Control (Hazardous Waste)	78	73	94%	4	5%	1	1%		
Outdoor Storage of Raw Materials	80	40	50%	32	40%	8	10%		
Vehicle and Equipment Fueling	61	55	90%	5	8%	1	2%		
Vehicle and Equipment Cleaning	75	41	55%	28	37%	6	8%		
Vehicle and Equipment Maintenance and Repair	73	49	67%	24	33%				
Aboveground and Underground Tank Leak and Spill Control	63	52	82%	10	16%	1	2%		

Letter Rating Summary							
Best Management Practices Category	No. of Facilities w/BMP Activity	Highly Effective		Moderately Effective		Ineffective	
		A Rating		B Rating		C Rating	
Building and Grounds Maintenance	82	26	32%	52	63%	4	5%
Storage of Hazardous Materials (Working Stock)	74	69	93%	4	7%		
Material Storage Control (Hazardous Waste)	78	69	88%	9	12%		
Outdoor Storage of Raw Materials	80	44	55%	34	43%	2	2%
Vehicle and Equipment Fueling	61	46	75%	15	25%		
Vehicle and Equipment Cleaning	75	43	58%	31	41%	1	1%
Vehicle and Equipment Maintenance and Repair	73	62	85%	11	15%		
Aboveground and Underground Tank Leak and Spill Control	63	52	83%	11	17%		

4.0 COMPLIANCE ASSESSMENT AND TRENDS

This section summarizes overall BMP implementation and effectiveness trends observed during the reporting period. The overall status of storm water management compliance and BMP implementation remains positive. Of the 82 facilities inspected, 63 facilities (77 percent) received a rating of 1 or 2.

The remaining 19 facilities (23 percent) received a rating of 3. None of the 82 facilities inspected during the reporting period received a rating of 4. Eighteen of these nineteen facilities were in compliance after the first revisit and the remaining facility after the second revisit.

Overall improvements observed include a better understanding by Maintenance personnel of water pollution control requirements and proper BMP implementation through continued formal training (classroom), and informal training (BMP tailgate meeting, storm water reviews/inspections, etc.)

4.1 BUILDING AND GROUNDS MAINTENANCE

Building and Grounds Maintenance BMPs are the most effective storm water management practice at facilities when implemented properly. Overall implementation and effectiveness of Building and Grounds Maintenance BMPs were in compliance with the SWMP. Eighty-two percent (82%) of the facilities were in compliance with the SWMP.

At some maintenance facilities, implementation of Building and Grounds Maintenance BMPs may be improved in the following area(s):

- **Sweeping:** Sediment, debris, and trash were observed along the facility boundaries and next to buildings. At these locations, additional sweeping and training should be implemented.
- **Stabilization and Erosion Controls:** Improvement in soil stabilization and erosion control may be implemented along slopes.
- **Housekeeping:** Improvement in housekeeping activities may be implemented to (1) minimize and cleanup minor leaks from vehicles and equipment and (2) minimize solid waste and debris stored at the facilities.

4.2 STORAGE OF HAZARDOUS MATERIALS (WORKING STOCK)

These BMPs address the proper storage of hazardous materials to prevent potential spills and leaks of the working stock at the facility. Overall implementation and effectiveness of storage of hazardous materials (working stock) BMPs were in compliance with the SWMP and highly effective. One Hundred percent (100%) of the facilities were in compliance.

4.3 MATERIAL STORAGE CONTROL (HAZARDOUS WASTE)

These BMPs address the proper storage of hazardous wastes to prevent potential spills and leaks at the facility. Overall implementation and effectiveness of material storage control (hazardous waste) BMPs were in compliance with the SWMP and highly effective. Ninety-nine percent (99%) of the facilities were in compliance.

4.4 OUTDOOR STORAGE OF RAW MATERIALS

Most facilities have raw materials stored outdoors. Outdoor Storage of Raw Material BMPs provide guidelines for minimizing the potential for spills and leaks of materials and preventing their transport off the facility. Overall implementation and effectiveness of Outdoor Storage of Raw Materials BMPs were in compliance with the SWMP and highly to moderately effective. Ninety percent (90%) of the facilities were in compliance.

At some maintenance facilities, implementation of Outdoor Storage of Raw Materials BMPs may be improved in the following area(s):

- **Tracking:** Minor tracking around asphalt, cinder, sand storage areas, and overfilled bunkers were observed. This may be corrected by implementing better housekeeping practices and perimeter control.

4.5 VEHICLE AND EQUIPMENT FUELING

The vehicle and equipment fueling BMP addresses spills and leaks of gasoline and diesel fuels. Overall implementation and effectiveness of vehicle and equipment fueling BMPs were in compliance with the SWMP and highly effective. Ninety-eight percent (98%) of the facilities were in compliance

4.6 VEHICLE AND EQUIPMENT CLEANING

These BMPs address proper practices for managing non-storm water pollutants (i.e., oils), excessive rinse water, and sediment associated with vehicle and equipment cleaning. Overall implementation and effectiveness of vehicle and equipment cleaning BMPs were in compliance with the SWMP and highly effective. Ninety-two percent (92%) of the facilities were in compliance

At some maintenance facilities, implementation of Vehicle and Equipment Cleaning BMPs may be improved in the following area(s):

- **Water Conservation Practices:** For exterior wash areas or rinse areas that do not discharge to the sanitary sewer system, reduce the volume of water used to prevent the potential of water discharging off the facility.
- **Sediment Controls:** Proper manage and dispose of accumulated sediment and sediment-laden wastewater at facilities where cleaning occurs.
- **Locations:** Some facilities have cleaning areas near discharge locations, drainage flow paths, or waterways. Relocate cleaning areas away from discharge locations, drainage paths or waterways.
- **Additional Training:** Implement additional training on the proper procedures for vehicle and equipment cleaning and non-storm water discharges.

4.7 VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR

The vehicle and equipment maintenance and repair BMP addresses spills and leaks associated with fuels, oils, hydraulic fluids, lead-acid batteries, antifreeze, and oil filters. Overall implementation and effectiveness of vehicle and equipment maintenance and repair BMPs were in compliance with the SWMP and highly effective. One hundred percent (100%) of the facilities were in compliance

4.8 ABOVEGROUND AND UNDERGROUND TANK LEAK AND SPILL CONTROL

The aboveground and underground tank leak and spill control BMP addresses practices for handling fuels, oils, de-icing chemicals, and emulsions stored in tanks. Overall implementation and effectiveness of aboveground and underground tank leak and spill control BMPs were in compliance with the SWMP and highly effective. Ninety-eight percent (98%) of the facilities were in compliance.

ATTACHMENT A

**MAINTENANCE FACILITY COMPLIANCE REVIEW
RATING GUIDELINES AND PROCEDURES**

Maintenance Facility Compliance Review Rating Guidelines and Procedures

The numeric rating criteria are as follows:

- 1 Rating** The facility is in compliance with Storm Water Management Plan (SWMP) requirements. Revisit will be conducted during the next cycle.
- No observed activities that contribute to a non-storm water discharge.
- 2 Rating** Minor deficiencies noted. The facility is in compliance with SWMP requirements. Revisit will be conducted during the next cycle.
- Minor housekeeping problems (e.g., some areas need sweeping, some litter, small fluid spots need cleanup and removal).
 - Minor waste management and storage problems (e.g., solid waste storage inadequate or exposed during rainfall).
- 3 Rating** Major deficiencies noted that require prompt correction. A re-visit will be conducted within two weeks. District Maintenance Storm Water Coordinator and Headquarters Maintenance Storm Water personnel are notified.
- Potential non-storm water discharge.
 - Evidence of a prior non-storm water discharge that has not been completely cleaned up.
 - Multiple deficiencies described in the “2” rating, which cannot be corrected immediately.
- 4 Rating** Critical deficiencies noted that require immediate correction. A re-visit will be conducted within one week. District Maintenance Storm Water Coordinator, District Managers, Environmental, and Headquarters Maintenance Storm Water personnel are notified.
- Observed non-storm water discharge.

Note: For ratings of 3 or 4, comments are required on the Review Summary Sheet describing the deficiencies.

The letter rating criteria are as follows:

- A Rating** Overall implementation of BMPs is highly effective.
- BMPs are implemented and maintained in good condition.
 - Some minor deficiencies with the implemented BMPs
- B Rating** Overall implementation of BMPs is moderately effective.
- Some BMPs are not fully or properly maintained.
 - Improper implementation of some BMPs.
 - Some BMPs have not been installed.
- C Rating** Major and critical deficiencies in the overall implementation of BMPs.
- Many BMPs improperly installed.
 - BMPs have failed due to non-maintenance.
 - Many BMPs not implemented or installed.

ATTACHMENT B

**CALTRANS MAINTENANCE FACILITY
STORM WATER COMPLIANCE REVIEW CHECKLIST**

Caltrans Maintenance Facility Storm Water Compliance Checklist					
District :				Overall Site Rating *	
Facility Name:					
Address				Date:	
Inspector(s):			Facility Phone No.		
Facility Supervisor:			Notification Date:		
Review Type:	Initial	Revisit	Self Inspection Documented	Yes	No
FPPP Available On-site:	Yes	No	All Storm Drains Stenciled	Yes	No
Structural Treatment BMPs:	Yes	No	Type		
BMP	Objective/Criteria		BMP Rating*	Comment Number(s)	
Building and Grounds Maintenance	Are the buildings and grounds maintained to reduce the potential for discharge of pollutants to the storm water drainage system?				
Storage of Hazardous Materials (Working Stock)	Are hazardous materials (working stock) properly managed to reduce the potential for discharge of pollutants to the storm water drainage system?				
Material Storage Control (Hazardous Waste)	Are hazardous wastes properly managed to reduce the potential for discharge of pollutants to the storm water drainage system?				
Outdoor Storage of Raw Materials	Are practices implemented to adequately reduce the potential for discharge of products from outdoor raw material storage sites to the storm water drainage system and to minimize exposure to storm water?				
Vehicle and Equipment Fueling	Are practices implemented to minimize contact between storm water and vehicle fluids at fueling areas?				
Vehicle and Equipment Cleaning	Are practices implemented to minimize contact between storm water and vehicle washing areas and ensure that wash water is not discharged to the storm drainage system?				
Vehicle and Equipment Maintenance and Repair	Are practices implemented that reduce the discharge of potential pollutants from areas in which vehicle maintenance and repair activities are conducted and minimize contact between storm water and activity areas and products used?				
Aboveground and Underground Tank Leak and Spill Control	Are adequate practices implemented to reduce the discharge of potential pollutants to the storm water drainage system from aboveground and underground storage tanks?				
Description of Rating					
1	The facility is in compliance with the Storm Water Management Plan (SWMP).				
2	Minor deficiencies noted. The facility is in compliance with the SWMP.				
3	Major deficiencies. Prompt correction required. A re-visit will be conducted _____.				
4	Critical deficiencies. Immediate correction required. A re-visit will be conducted _____.				
A	Overall implementation of BMPs is highly effective.				
B	Overall implementation of BMPs is moderately effective.				
C	Major and critical deficiencies in overall implementation of BMPs.				

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